

MATERIAL SAFETY DATA SHEET

Reference No......: WTX19S12084226B004

Applicant.....: SYSMAX Innovations Co., Ltd.

Address : Rm 2601-06, Central Tower, NO.5 Xiancun Road, Tianhe District,

Guangzhou,510623, Guangdong, China

Manufacturer.....: Huizhou Meinovo Energy&Technology Co.,Ltd

Address.....: Liwu Industrial Area, Yuanzhou Town, Boluo County, Huizhou, China

Sample's name......: High Performance USB-C Rechargeable Battery

Date of Issue..... : 2020-03-16

Prepared By:

Waltek Services (Shenzhen) Co., Ltd.

Address: 1/F, Fukangtai Building, West Baima Rd., Songgang Street, Baoan District,

Shenzhen Guangdong, China

Tel:+86-755-83551033

Fax:+86-755-83552400

Jeff Liu / Project Engineer

Approved by:

Approved by:

Philo Zhong / Manager

Waltek Services (Shenzhen) Co., Ltd. http://www.waltek.com.cn





Material Safety Data Sheet

Section 1-Chemical Product and Company Identification

Product Name:	High Performance USB-C Rechargeable Battery	
Model No.:	NL2140R	
Ratings	3.6V, 4000mAh, 14.4Wh	
Weight:	Approx.74.2g	
Manufacturer:	Huizhou Meinovo Energy&Technology Co.,Ltd	
Address:	Liwu Industrial Area, Yuanzhou Town, Boluo County, Huizhou, China	
EmergencyTelephone:	+86-0752-6982776	
Fax:	+86-0752-6982776	
Email:	sales2@meinovo.com	

Section 2-Hazards Identification

Classi ficatio n:	Not dangerous with normal use. Do not dismantle, open or shred battery. The hazards indicated are for a ruptured battery. Exposure to the ingredients contained within or their ingredients products could be harmful.
Appea rance, Color and odor	Solid object with no odor, no color.
Invasi	ACUTE : see Section 8 for exposure controls In the event that this battery has been ruptured, the
onrout	electrolyte solution contained within the battery would be corrosive and can cause burns.
e:	Skincontact: Theleakageoftheelectrolytemaycausesoreandstimulationontheskin Eyecontact: Thesteamoftheelectrolytemaystimulateeyes. Especially, substance that may cause in flammation of the eyes is contained Inhalation: Inhalation of materials from a sealed battery is not an expected route of exposure.
	Vapors or mists from a ruptured battery may cause respiratory irritation. Ingestion: Swallowingisnotanticipatedduetothebatterysize. The ingestion of the electrolytecauses tiss uedamage to throat
Health hazar ds:	Forthebattery or cell,chemicalmaterialsarestoredinasealedmetalormetallaminatedplastic case, which designedtowithstandtemperaturesandpressuresencounteredduring normaluse. Asaresult, during normaluse, there is no physical danger of ignition, explosion or leakage of haz ardous materials. However, if exposed to a fire, added mechanical shocks or decomposed, these improper handlings would cause the leakage of electrolyte. Moreover, if he at edstrongly by the surrounding fire, a crid gas may be emitted
Enviro nment hazar ds:	Electrolyteleakageorbatterycontainerrupturemayleadtotheleakageofinnercomponentintotheenviron ment
Burn& burstd anger:	Donotdisposeofbattery in firemayexplode.Donotshort-circuitthebattery—maycausefire



Section3-Composition/informationonIngredient

Pure ☐Admixture⊠

Chemical Composition	Molecular Formula	CAS No.	Weight (%)
Lithium Cobalt Oxide (LiCoO2)	CoLiO ₂	12190-79-3	39.64
Aluminum Foil (AI)	Al	7429-90-5	5.54
Poly Vnylidene Fluoride PVDF(-[-CH2-CF2-]-n)	C ₂ H ₂ F ₂	24937-79-9	1.71
Graphite (C)	С	7782-42-5	23.19
Copper (Cu)	Cu	7440-50-8	9.7
Styrene-Butadiene Rubber	C ₁₂ H ₁₄	9003-55-8	1.25
Phosphate(1-), hexafluoro-, lithium	F ₆ LiP	21324-40-3	15.4
Polyethylene	$(C_2H_4)n$	9002-88-4	0.05
Polypropylene	(C ₃ H ₆)n	9003-07-0	0.8
Electrolyte Carbonate	C ₃ H ₄ O ₃	96-49-1	2.72

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

Section4-FirstAidMeasure

Skintouch:	Remove all contaminated clothing and flush extraneous matter with soap and plenty of water immediately for at least 15 minutes. Get medical aid.
Eyestouch:	In case of contact electrolyte with eyes, rinse immediately with plenty of water. Have the victims remove contact lenses if he is wearing them before rinsing. Do not let the victims rub his eyes. Get medical aid.
Inhalation:	Removetofreshair.Giveoxygenorartificialrespirationifneeded.Getmedicalaid.
Ingestion:	Swallowing is not anticipated in normal condition. If accidentally eat theproduct, dilute by giving plenty of water and get medical aid. Assure that mucus does not obstruct the airway. Do not give anything by mouth to an unconscious person

Section5-FireFightingmeasures

Dangercharacter istic:	Non- flammable.Thebatteriescanleakcombustibleelectrolytefumesincaseofoverheatresultin gfrominappropriateuse.
Hazardouscomb ustionproducts:	Irritantgasmaybeemittedifburnedorexposedtofire
Hazardouscomb ustionproducts:	Irritantgasmaybeemittedifburnedorexposedtofire
Fire-Fighting method & media:	Thestaffmustequippedwithfiltermask(fullmask)orisolatedbreathingapparatus. Thestaff mustweartheclothesandgloveswhichcandefendthefireandthetoxicgas. Whenthebattery burnswithothercombustiblessimultaneously, takefireextinguishingmethodwhichcorrespondtothecombustibles. Extinguishafirefrom the windward as much as possible
Extinguishant:	Carbondioxide,drychemical,foam,etc



Section6-AccidentalReleaseMeasures

Personal precautions	Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Other Information	Refer to protective measures listed in section 7 and 8.
Environmental precautions	Refer to protective measures listed in Section 7 and 8. Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

Section7-Handingandstorage

Handi	Beforehandlingthebatteries,theusersshouldreadtheproductspecificationcarefully.Donotcrush,pierce
ng:	thebatteryterminals
	withconductivegoods.Notdirectlyheatorsolder.Donotthrowinfire.Donotmixbatteriesofdifferenttypes.D
	onotmixnewandusedbatteries.Keepbatteriesinnon-conductivetrays
Stora	Storebatteriesincoolandventilatedareaawayfromsourcesofheat,openflames,corrosivechemicals,foo
ge:	danddrink.Since shortcircuitcancauseburn,leakageandrupture,keepbatteries
	inoriginalpackaginguntiluseanddonotjumblethem.Keepawayformchildren

${\bf Section 8-Exposure controls, Personal Protection}$

Maximumadmissiblecon centration:	Noinformationisavailable	
MonitoringMethod:	Useventilationorothermonitoringdevicestocontroltemperature, humidity and fume	
	S	
EngineeringControl:	Useventilationorothermonitoringdevicestocontroltemperature,humidityandfume	
	S	
RespiratoryProtection:	Notnecessaryundernormaluse.Incaseofbatteryrupture,useself-	
	containedrespiratoryequipment	
Eyes/faceProtection:	Notnecessaryundernormaluse.Wearsafetygogglesifhandingaleakingorruptured	
	batteries	
Skin and	Notnecessaryundernormaluse. Userubbera pronand protective clothesin case of h	
Bodyprotection:	andingaleakingorrupturedbatteries	
HandsProtection:	Notnecessaryundernormaluse. Userubbergloves if handing aleaking orruptured ba	
	tteries	
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice. Avoid	
	contact with skin, eyes or clothing. Wear suitable gloves and eye/face	
	protection. Do not eat, drink or smoke when using this product. Take off	
	contaminated clothing and wash before reuse. Contaminate work clothing	
	should not be allowed out of the workplace. Regular cleaning of equipment,	
	work area and clothing is recommended. Wash hands before breaks and	
	immediately after handling the product. For environmental protection,	
	remove and wash all contaminated protective equipment before re-use.	
OtherProtections:	None	



Section9-PhysicalandChemicalProperties

Physical state:	Solid	
Color:	Yellow	
Odor:	Noinformationisavailable	
pHValue:	Notavailable	
Boilingpoint		
/range	Notavailable	
Melting		
/freezingPoint:	Notavailable	
Flashpoint:	Notavailable	
Evaporation		
rate:	Notavailable	
Upperflammable		
(explosive)limitsi		
nair-	Notavailable	
Lower(vol%)-		
UEL:		
Vaporpressure:	Notavailable	
Vapordensity:	Notavailable	
Specific Gravity:	Notavailable	
Water Solubility:	Immiscible in water	
Solubility in		
other solvents:	Notavailable	
Partitioncoefficie		
nt(n-	Notavailable	
octanol/water):		
Autoignition	Made Walde	
temperature	Notavailable	
Decomposition	Netoveilele	
temperature:	Notavailable	
Kinematic	Notavailable	
viscosity:	INULAVAIIAUIE	
Dynamic	Notavailable	
viscosity:	NULAVAIIADIE	
Explosive	Notavailable	
properties:	Notavailable	
Oxidizing	Notavailable	
properties:	INULAVAIIAUIE	
Evaporationrate:	Notavailable	
Ignitiontemperat ure:	Noinformationisavailable	
Anyadditioninfor mation:	None	

Page 6 of 7



Section10-StabilityandReactivity

Reactivity:	No data is available
Chemical stability:	Stable under recommended storage condition
Possibility of Hazardous Reactions:	None under normal processing.
HazardousPolymerization:	Noinformationisavailable
Conditions to avoid:	Exposure to air or moisture over prolonged periods.
Incompatible materials	Acids, Bases, Oxidizing agent.
HazardousDecompositionProducts:	Irritantgasmaybeemittedifburnedorexposedtofire

Section11-ToxicologicalInformation

AcuteToxicity:	Noinformationisavailable	
Sub-	Lithiumionbatteriesdonotcontaintoxicmaterials	
acuteandChronicT		
oxicity:		
Irritation:	Irritationonlyoccursifthebatteriesareabusedanditmaycauseirritationtoskin,eyes,respir	
	atorytract.	
Sensitization:	Noinformationisavailable	
Mutagenicity:	Noinformationisavailable	
Carcinogenicity:	Noinformationisavailable	
Others:	None	

Section12-EcologicalInformation

Eco-toxicity:	Whenproperlyusedanddisposed,lithiumironbatteriesdonotpresentenvironmenthazard
Biodegradable:	Noinformationisavailable
Non-	Noinformationisavailable
biodegradable:	
Bioconcentrationo	Noinformationisavailable
rbiologicalaccum	
ulation:	
Otherharmfuleffec	None
ts:	

Section13-DisposalConsiderations

Natureofwaste:	Noinformationisavailable
Wastedisposalmet	Disposeinaccordancewithapplicableregulationswhichvaryfromcountryto
hods:	country.Inmorecountriesthediscardofusedbatteriesisforbiddenandtheend-
	usersareinvitedtodisposethemproperly.Lithiumion batteryshouldhave
	theirterminalsinsulated andbepreferablywrapped inplasticbagspriortodisposal
Contaminated Packaging:	Dispose of contents/containers in accordance with local regulations.
Attentionabandon ed:	Incinerationshouldneverbeperformedbybatteryuser

Section14-Transportinformation

Note:	This report applies to transportation of by air or by sea or by road.
	The High Performance USB-C Rechargeable BatteryNL2140Rhas passed the test Section
	38.3 of Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria.
	Report No.: WTX19S12084226B001
	The transportation of lithium cells and batteries is regulated by the International Civil Aviation
	Organization, International Air Transport Association, International Maritime Dangerous Goods
	Code.



	When shipped by air, package should according to packing instruction 965~967 of IATA DGR 61st Editionfortransportation. When shipped by sea, package should according to special provision 188 of IMDG CODE 39-18 Editionfortransportation. When shipped by road, package should according to special provision 188 of ADR2020
	Editionfortransportation.
UNNumb	3480/3481
er:	
Class:	
Packingg	II/IB
roup:	
Propershi	Lithium Ion Batteries/Lithium Ion Batteries Contained In Equipment/Lithium Ion Batteries
ppingnam	Packed With Equipment
e:	
Packagin gMark:	Each package must be labeled with a lithium battery label.
Packagin	Noinformationisavailable
gMethod:	Nomomationsavailable
Transport	Byair /By sea/By road
Fashion:	
Transport Attention s:	Examinewhetherthepackageof thecontainers are integrateand tight-closedor notbeforetransport.Nodivulgence,nocollapse,noprecipitationornodamageduringthecourseoftran sportation.Don'tputthegoodstogetherwithcorrosivechemicals.Stopoversshouldbeawayfromfirea ndheatsources

Section15-RegulatoryInformation

RegulatoryInformati	ISO11014-2009Safetydatasheetforchemicalproducts—Contentandorderofsections.
on:	GB/T16483-2008Safetydatasheetforchemicalproducts-
	ContentandorderofsectionsTheinternationalMaritimeDangerousGoods(IMDG)Code
	InternationalAirTransportAssociation(IATA)DangerousGoodsRegulations,61st,202
	0.
	TheEuropeanAgreementconcerningtheInternationalCarriageofDangerousGoodsby
	Road(ADR)
	TheRegulationsConcerningtheInternationalTransportofDangerousGoodsbyRail(RI
	D)
	U.S.DepartmentofTransportation(DOT)
	GloballyHarmonizedSystemofClassificationandLabelingofChemicals(GHS)

Section16-AdditionalInformation

===== End of Report =====